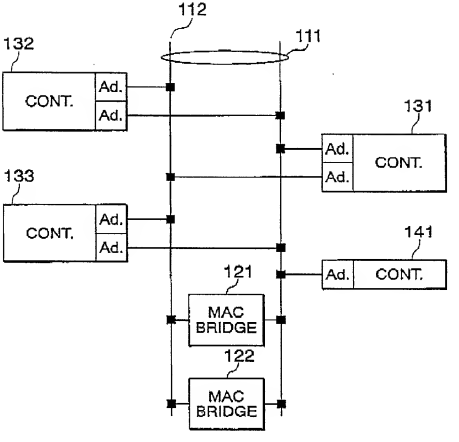

FIG. 1
PRIOR ART

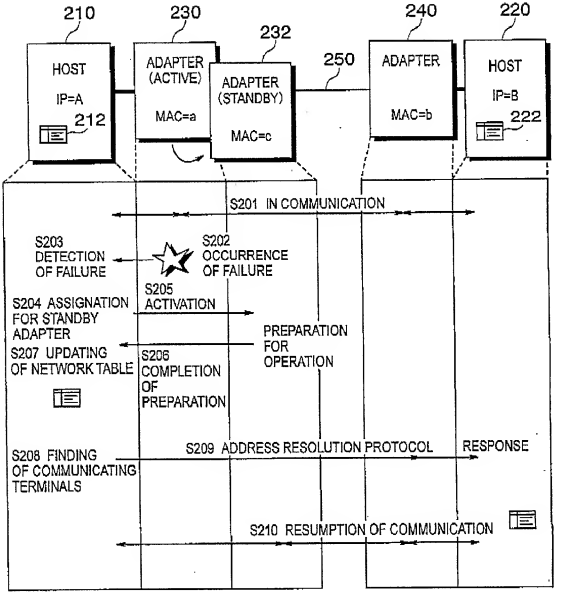

FIG. 2
PRIOR ART

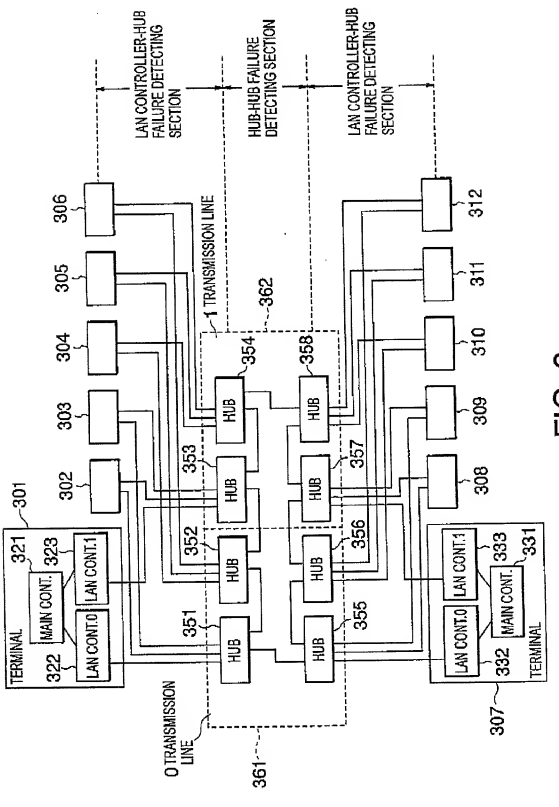
TERMINAL
301
321
MAIN CONT.
323
LAN CONT.1
LAN CONT.0
322
302
303
304
305
306
LAN CONTROLLER-HUB FAILURE DETECTING SECTION
1 TRANSMISSION LINE
HUB-HUB FAILURE DETECTING SECTION
362
LAN CONTROLLER-HUB FAILURE DETECTING SECTION
HUB
354
358
353
352
351
357
356
355
0 TRANSMISSION LINE
361
307
LAN CONT.0
LAN CONT.1
332
MAIN CONT.
333
331
TERMINAL
308
309
310
311
312

FIG. 3

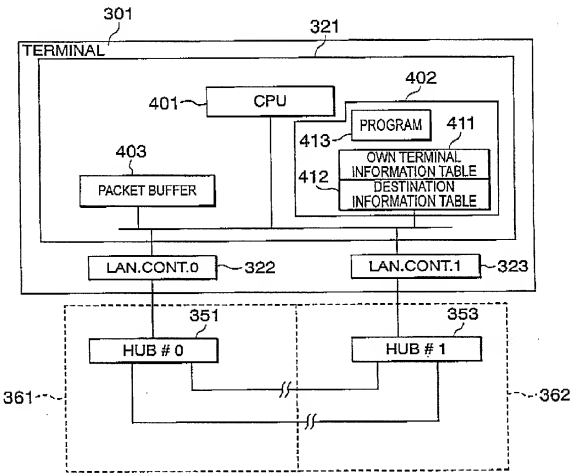
301
321
TERMINAL
402
401
CPU
PROGRAM
411
413
403
OWN TERMINAL INFORMATION TABLE
412
PACKET BUFFER
DESTINATION INFORMATION TABLE
LAN.CONT.0
322
LAN.CONT.1
323
351
353
HUB # 0
HUB # 1
361
362

FIG. 4

411

TERMINAL IP ADDRESS	CH IP ADDRESS	MAC ADDRESS (LAN CONT.0)	MAC ADDRESS (LAN CONT.1)	OPERATING PORT	LAN 0 STATUS	LAN 1 STATUS	HUB-HUB STATUS
10. 1. 10. 1	10. 1. 10. 64	**.**.**. **.**.**.	**.**.**. **.**.**.	0	**	**	**

OPERATING PORT LAN 0, 1 STATUS
0 : LAN CONT. 322 act
0 : IDLE
2 : re BLK
1 : LAN CONT. 323 act
1 : BLK
FF : FAILED

HUB-HUB STATUS
0 : IDLE
1 : UNSETTLED (ONE SIDE FAILED, OR OUT OF SERVICE)
FF : FAILED

FIG. 5

412

IP ADDRESS	MAC ADDRESS (ACTIVE LAN CONT.)
10. 10. 10. 63	**.**.**.**.**.**
10. 10. 10. 127	**.**.**.**.**.**
10. 10. 10. 181	**.**.**.**.**.**
10. 10. 10. 253	**.**.**.**.**.**
10. 10. 20. 63	**.**.**.**.**.**
⋮	⋮

FIG. 6

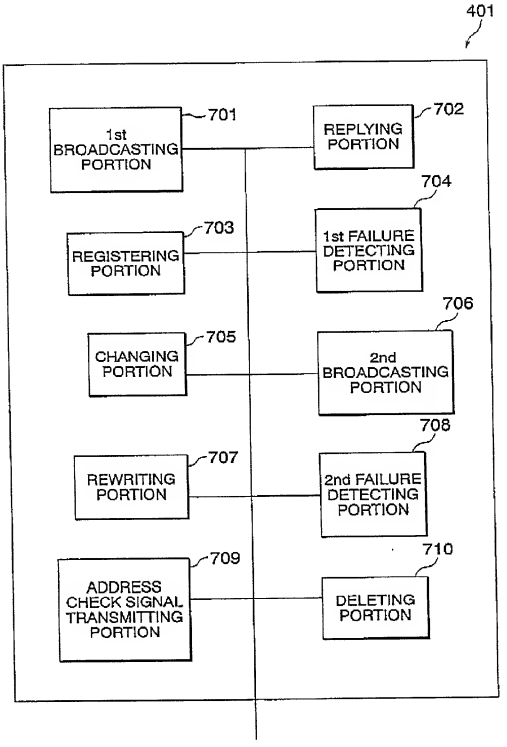
401
701
1st BROADCASTING PORTION
702
REPLYING PORTION
704
703
REGISTERING PORTION
1st FAILURE DETECTING PORTION
706
705
CHANGING PORTION
2nd BROADCASTING PORTION
708
707
REWRITING PORTION
2nd FAILURE DETECTING PORTION
710
709
ADDRESS CHECK SIGNAL TRANSMITTING PORTION
DELETING PORTION

FIG. 7